

Application No. 09/381,696
Amendment dated November 14, 2005

Docket No.: 22032-00035-US

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions and listings of the claims in this application.

1. (currently amended) A nuclear reactor device comprising:

- a reactor containment formed by a first wall member defining an inner space;
- a reactor vessel housing a reactor core and being located in the inner space; and
- an upper space located above the reactor containment and defined by a second wall member, wherein the first wall member and the second wall member have, viewed in a horizontal section, an essentially identical cross-sectional shape and form an essentially common cylinder, wherein said cross-sectional shape is essentially circular, wherein said first wall member and said second wall member form a ~~continuous sliding form casting~~ continuous, single-piece casting, and wherein said upper space ~~is divided into~~ comprises a plurality of part spaces including water forming water-filled pools.

2-3. (canceled)

4. (previously presented) A nuclear reactor device according to claim 1, wherein the first wall member and the second wall member are constructed of concrete including reinforcement members, and wherein said first wall member and said second wall member comprise tightening members arranged to enable biasing of said first wall member and said second wall member.

5. (previously presented) A nuclear reactor device according to claim 4, wherein said tightening members extend in the second wall member at least in one of the directions about the upper space and along the upper space.

6. (previously presented) A nuclear reactor device according to claim 1, wherein at least the second wall member comprises a wall coating disposed on an inner side of the casting.

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7. (previously presented) A nuclear reactor device according to claim 1, wherein the upper space is divided into part spaces by means of at least one primary wall element extending between two separated attachment portions of the second wall member.
8. (previously presented) A nuclear reactor device according to claim 1, wherein the upper space is divided into part spaces by means of two primary wall elements separated from each other and each extending between two separated attachment portions of the second wall member.
9. (previously presented) A nuclear reactor device according to claim 8, wherein the two primary wall elements are essentially parallel to each other.
10. (previously presented) A nuclear reactor device according to claim 8, comprising two secondary wall elements which extend between the two primary wall elements and which between themselves and together with the primary wall elements form an isolated part space.
11. (previously presented) A nuclear reactor device according to claim 10, wherein the isolated part space is located above a cover device of a separating wall separating the upper space from the inner space.
12. (previously presented) A nuclear reactor device according to claim 1, comprising door members arranged to provide a passage between at least two of said part spaces.
13. (withdrawn) A method of constructing a nuclear reactor device, comprising the steps of:
- casting a first wall member defining an inner space of a reactor containment intended to comprise a reactor vessel to be arranged in the inner space and housing a reactor core, and
 - providing a second wall member defining an upper space above the reactor containment, characterized in that the first wall member and the second wall member are cast by means of an essentially common form being lifted upwardly during the course of the casting process, wherein the first wall member and the second wall member have, seen in a horizontal section, an essentially identical cross-sectional shape and form an essentially common cylinder.

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14. (withdrawn) A method according to claim 13, characterized in that the said form comprises a sliding form.

15. (withdrawn) A method according to claim 13, characterized in that the casting of the second wall member is preceded by the lifting to a position of prepared blocks comprising reinforcement members and an inner wall coating.

16. (withdrawn) A method according to claim 15, characterized in that the during the course of the casting process tightening members are provided in said wall member in such a manner that they extend in at least one of the directions about said spaces and along said spaces, and that the tightening members after the casting process are tightened to prestress said wall member.

17. (withdrawn) A method according to claim 16, characterized in that the tightening members are provided in tubes provided in said wall member.

18. (withdrawn) A method according to claim 17, characterized in that after or in connection with said tightening concrete is injected into said tubes.